

**09898360**  
**Notice of Allowability**

Application No.

09/898,360

Examiner

Alexander Eisen

Applicant(s)

SEALS ET AL.

Art Unit

2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Application filed on 03 July 2001.
2. ☒ The allowed claim(s) is/are 1-6.
3. ☒ The drawings filed on 18 September 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

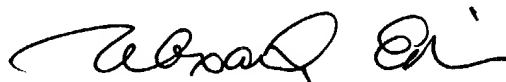
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 03/07/2001
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.



Alexander Eisen  
Primary Examiner  
Art Unit: 2674

**DETAILED ACTION**

***Allowable Subject Matter***

1. Claims 1-6 are allowed.
2. The following is an examiner's statement of reasons for allowance: none of the references, either singularly or in combination, teach or fairly suggest modification or combination with the cited below prior art, which is considered to be pertinent to the invention, so as to satisfy the combination of all the limitations of independent claim 1; none of the references have been found by the examiner that teach or suggest a video converter board for converting stroke/raster video formatted data Red, Green, Blue (RGB) video having a sync-on-green (SOG) control signal formatted for a serial interface conforming to Electronic Industries Association (EIA) standards, the stroke/raster video data comprising X deflection signals, Y deflection signals and video-in signals, wherein the RGB video data is being synchronized by the sync-on-green (SOG) signal, the video converter board comprising an analog to digital front-end circuitry sampling at predetermined rate said X deflection, Y deflection and video-in signals and converting each sampled signal into a corresponding digital quantity; a video memory comprised of a plurality banks for storing each digital quantity; a memory control circuitry for sequentially selecting each of the plurality of the memory banks; a synchronization control circuitry for generating timing signals for the sync-on-green (SOG) signal and the memory addresses for reading and blanking; and a digital/analog converter output circuitry receiving in response to the synchronization control circuitry formatted RGB video data as well as the timing signals for the SOG signal and outputting the SOG signal along with the RGB video data in a manner conforming to the interface.

**Sharp et al., US 5,557,297**, discloses a system for converting XY stroke signals ( X and Y deflection signals) into RGB signals for driving a raster type display having analog-to- digital front-end circuitry sampling at predetermined rate the X deflection, Y deflection and video-in signals, and converting each sampled signal into a corresponding digital quantity; a video memory comprised of a plurality memory banks for storing each digital quantity; a memory control circuitry for sequentially selecting each of the plurality of the memory banks, and synchronization control circuitry. Sharp et al. does not disclose a control circuitry for generating timing signals for the sync-on-green (SOG) signal, and a digital-to-analog converter output circuitry receiving in response to the synchronization control circuitry formatted RGB video data as well as the timing signals for the SOG signal and outputting the SOG signal along with the RGB video data.

**Tanner et al., US 6,496,160 B1**, discloses a stroke to raster converter system including some component and function as those of the invention, but fails to provide for converting stroke signals into RGB plus SOG signals for driving a raster display.

**Lee, US 6,064,443**, discloses a method of driving raster type display utilizing SOG signal.

None of the above teach or suggest the combination of limitations as claimed by the invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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*Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Eisen whose telephone number is (703) 306-2988. The examiner can normally be reached on M-F (8:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on (703) 305-4938. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Alexander Eisen  
Primary Examiner  
Art Unit 2674

21 September 2004